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## NOTICE OF ALLOWANCE AND FEE(S) DUE

24498

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12/29/2010

Robert D. Shedd, Patent Operations THOMSON Licensing LLC P.O. Box 5312 Princeton, NJ 08543-5312

EXAMINER					
AHMED, ENAM					
ART UNIT	PAPER NUMBER				
2112					

DATE MAILED: 12/29/2010

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/511,638 10/18/2004 Jill MacDonald Boyce PU020126 6343

TITLE OF INVENTION: SYNCHRONIZATION LOSS RESILIENT DIGITAL COMMUNICATION SYSTEM USING FORWARD ERASURE

CORRECTION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/29/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

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appropriate. All further indicated unless correcte maintenance fee notifica	ed below or directed otl	ng the Patent, advance of herwise in Block 1, by (	orders and notification (a) specifying a new co	of m orresp	naintenance fees w pondence address;	ill be i and/or	mailed to the current (b) indicating a sepa	corres ırate "]	spondence address as FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
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Robert D. Shedd, Patent Operations THOMSON Licensing LLC P.O. Box 5312				I her State addre trans	eby certify that the Postal Service w	is Fee(s	of Mailing or Trans  Transmittal is being ficient postage for first SSUE FEE address 273-2885, on the d	g depos	sited with the United mail in an envelope
Princeton, NJ 08	3543-5312								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	FOR		ATTO	RNEY DOCKET NO.	CON	NFIRMATION NO.
10/511,638	10/18/2004	<b>l</b>	Jill MacDonald Boy	ce			PU020126		6343
TITLE OF INVENTION	ON: SYNCHRONIZAT	ION LOSS RESILIEN	T DIGITAL COMM	UNIO	CATION SYSTE	M US	ING FORWARD E	RASU	JRE
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810		03/29/2011
EXAM	IINER	ART UNIT	CLASS-SUBCLASS						
AHMED	, ENAM	2112	714-775000						
CFR 1.363).  Change of corresp Address form PTO/SI	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.								
recordation as set fort (A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Comj GNEE	ified below, no assignee pletion of this form is NC	e data will appear on the DT a substitute for filing (B) RESIDENCE: (C	ie pa ; an a ITY	ntent. If an assign assignment. and STATE OR C	COUNT	RY)		
Please check the appropr	iate assignee category or	categories (will not be p	orinted on the patent):		Individual 🖵 Co	orporati	on or other private gro	oup ent	tity Government
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
5. Change in Entity Sta	tus (from status indicate is SMALL ENTITY state	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no	lone	er claiming SMAI	L ENT	TITY status. See 37 Cl	FR 1.2	7(0)(2)
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req	uired) will not be accepte	ed from anyone other th		-				
					Date				
Authorized Signature  Typed or printed name									
This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to p									
an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu Virginia 22313-1450. DO	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the	1.14. This collection is y depending upon the in ne Chief Information Of	s esti ndivi fficei	imated to take 12 i idual case. Any co r. U.S. Patent and	ninutes mment Traden	to complete, including s on the amount of time ark Office, U.S. Depart	ig gath me you artmen	ering, preparing, and a require to complete at of Commerce, P.O.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/511,638	10/18/2004	Jill MacDonald Boyce	PU020126	6343	
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Robert D. Shed	ld, Patent Operations	AHMED, ENAM			
THOMSON Lice	ensing LLC	ART UNIT	PAPER NUMBER		
P.O. Box 5312 Princeton, NJ 08543-5312			2112 DATE MAILED: 12/29/2010		

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 876 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 876 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)				
	10/511,638	BOYCE, JILL MACDONALD				
Notice of Allowability	Examiner	Art Unit				
	ENAM AHMED	2112				
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. <b>THIS</b>				
1. This communication is responsive to <u>8/20/10</u> .						
2. X The allowed claim(s) is/are <u>1-3,5-9,11-14 and 16-20</u> .						
<ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority unallocation.</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> </ul>						
2. ☐ Certified copies of the priority documents have						
3. ☐ Copies of the certified copies of the priority doc						
International Bureau (PCT Rule 17.2(a)).	cuments have been received in this i	lational stage application from the				
` '/						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements				
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give						
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.					
(a) ☐ including changes required by the Notice of Draftspers		948) attached				
1)  hereto or 2)  to Paper No./Mail Date	· · · · · · · · · · · · · · · · · · ·	,				
(b) ☐ including changes required by the attached Examiner's		office action of				
Paper No./Mail Date	7 Americanient 7 Comment of in the C					
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the						
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application				
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	• •				
, , , ,	Paper No./Mail Dat	ė .				
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>12/21/10</u></li> </ol>	7. 🛛 Examiner's Amendn	IEIIV COITIITIETII				
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	<del>_</del>	nt of Reasons for Allowance				
	9.					
/Enam Ahmed/						
Examiner, Art Unit 2112						

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Art Unit: 2112

**Examiner Amendment** 

1. An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided by

37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no

later than the payment of the issue fee.

Claims

1. (Currently Amended) An apparatus for enabling recovery of missing

information in a digital communication system, comprising:

a Forward Erasure Correction (FXC) encoder for computing FXC parity

superpackets across information superpackets for subsequent recovery of any entire ones

of the information superpackets that have been at least partially compromised due to

synchronization loss; and

a multiplexer for multiplexing the information superpackets and the FXC parity

[superpackes] superpackets prior to any transmission thereof.

Reasons for allowance

Claims 1-3, 5-9, 11-14 and 16-20 are allowed.

The following is a reasons for allowance:

The prior art fails to disclose or suggest features in the claimed invention.

It has been determined after careful review of the claims that the prior art does not teach: a Forward Erasure Correction (FXC) encoder for computing FXC parity superpackets across information superpackets for subsequent recovery of any entire ones of the information superpackets that have been at least partially compromised due to synchronization loss.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Enam Ahmed whose telephone number is 571-270-1729. The examiner can normally be reached on Mon-Fri from 8:30 A.M. to 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Scott Baderman, can be reached on 571-272-3644.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status

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Art Unit: 2112

information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EA

12/14/10

/Scott T Baderman/

Supervisory Patent Examiner, Art Unit 2114